


**GRAVITY COMPENSATION CONTROL SYSTEM AND METHOD USING
MULTIPLE FEASIBILITY PARAMETERS**

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CROSS-REFERENCE TO RELATED APPLICATIONS

 [0001] This application is a continuation-in-part of U.S. patent application
~~No. 10/665,460~~ ^{10/655,460} filed on September 5, 2003, ^{now U.S. Patent NO. 7,217,247} which claims priority of U.S. provisional
applications No. 60/413,024 filed on September 23, 2002 and No.60/421,964 filed on
October 28, 2002 and No.60/484,708 filed on July 3, 2003 which are all incorporated by
reference herein in their entirety.

FIELD OF THE INVENTION

[0002] The present invention relates to a method for obtaining assist torques
to be applied to joints of legs through gravity compensation control in a human assist
system. The present invention further relates to a human assist system with gravity
compensation control.